

**Commonwealth of Kentucky  
Division for Air Quality**

**PERMIT APPLICATION SUMMARY FORM**

Completed by: Andrew True

GENERAL INFORMATION:

Name:	Equitable Gathering - Jenkins Compressor Station
Address:	1480 Industrial Park Road Jenkins, KY 41537
Date application received:	5/8/2008
SIC Code/SIC description:	1311, Crude Petroleum and Natural Gas
Source ID:	21-133-00109
Agency Interest:	100520
Activity:	APE20080001
Permit:	F-08-020

APPLICATION TYPE/PERMIT ACTIVITY:

<input checked="" type="checkbox"/> Initial issuance	<input type="checkbox"/> General permit
<input type="checkbox"/> Permit modification	<input type="checkbox"/> Conditional major
__Administrative	<input type="checkbox"/> Title V
__Minor	<input checked="" type="checkbox"/> Synthetic minor
__Significant	<input type="checkbox"/> Operating
<input type="checkbox"/> Permit renewal	<input checked="" type="checkbox"/> Construction/operating

COMPLIANCE SUMMARY:

<input type="checkbox"/> Source is out of compliance	<input type="checkbox"/> Compliance schedule included
<input type="checkbox"/> Compliance certification signed	

APPLICABLE REQUIREMENTS LIST:

<input type="checkbox"/> NSR	<input type="checkbox"/> NSPS	<input checked="" type="checkbox"/> SIP
<input type="checkbox"/> PSD	<input checked="" type="checkbox"/> NESHAPS	<input type="checkbox"/> Other
<input type="checkbox"/> Netted out of PSD/NSR	<input checked="" type="checkbox"/> Not major modification per 401 KAR 51:001, 1(116)(b)	

MISCELLANEOUS:

- ☐ Acid rain source
- ☐ Source subject to 112(r)
- ☒ Source applied for federally enforceable emissions cap
- ☐ Source provided terms for alternative operating scenarios
- ☐ Source subject to a MACT standard
- ☐ Source requested case-by-case 112(g) or (j) determination
- ☐ Application proposes new control technology
- ☐ Certified by responsible official
- ☒ Diagrams or drawings included
- ☐ Confidential business information (CBI) submitted in application
- ☐ Pollution Prevention Measures
- ☐ Area is non-attainment (list pollutants):

EMISSIONS SUMMARY:

Pollutant	Actual (tpy)	Potential (tpy)
VOC	0	16.4
Single HAPs		
n-Hexane	0	0.1248
Benzene	0	0.1818
Toluene	0	0.8979
Ethyl benzene	0	0.2081
Xylenes	0	2.9061
Source wide HAPs	0	4.32

SOURCE DESCRIPTION:

Equitable Gathering, LLC has submitted an air permit application to construct and operate a new natural gas compressor station in Letcher County near Jenkins, Kentucky (Jenkins Station). The station will be used to compress natural gas as it is being transported via pipeline. The Jenkins compressor station will consist of two (2) electric compressors, a glycol dehydration unit with associated natural gas fired reboiler, and six (6) small storage tanks. The emissions from the dehydrator unit will be vented to a flare for control of volatile organic compounds (VOC) and hazardous air pollutants (HAP).

Natural gas will enter the station via a distribution pipeline system and will be compressed using two (2) electric-powered compressors (Units #1 and #2). The compressed natural gas stream will then be processed through the triethylene glycol (TEG) dehydration unit. The dehydration unit will filter the natural gas and separate excess water using a distillation process in which heat is provided to the dehydrator column by a natural gas-fired reboiler, which will be rated at 1.0 million British thermal units per hour (mmBtu/hr). The natural gas stream from the dehydrator will then be reintroduced into the pipeline to be transported further along the distribution system. Liquid fractions removed from the natural gas via dehydration will be stored in small storage tanks at the station. The dehydrator exhaust will be vented to a flare for control of volatile organic compounds (VOC) and hazardous air pollutants (HAP).

EMISSIONS AND OPERATING CAPS DESCRIPTIONS:

The Jenkins Station could have uncontrolled emissions greater than 100 tpy of volatile organic compounds (VOC). The station could also have uncontrolled emissions greater than 10 tons per year (tpy) of an individual hazardous air pollutant (HAP) and 25 tpy of total HAPs. The source-wide PTE of all pollutants will be less than major source thresholds without any federally enforceable emission limitations, except for VOC and HAP emissions. The flare will limit VOC and HAP emissions from the glycol dehydrator to less than major source levels (below 100 tpy and 10/25 tpy for VOC and HAP/HAPs respectively); therefore, the facility will be classified as a minor source for these pollutants. Due to the restriction of potential below major source thresholds, the federally enforceable permitting requirements for non-major sources will apply to the Jenkins Station.

OPERATIONAL FLEXIBILITY:

None